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OIPE

RAW SEQUENCE LISTING DATE: 03/06/2001
 PATENT APPLICATION: US/09/684,016 TIME: 13:02:59

Input Set : D:\Unigene20000612.txt
 Output Set: N:\CRF3\03062001\I684016.raw

P.S

ENTERED

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1 <110> APPLICANT: Kovalic, David K.
2   Liu, Jingdong
4 <120> TITLE OF INVENTION: Annotated Plant Genes
6 <130> FILE REFERENCE: 38-21(15097)D
C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/684,016
C--> 8 <141> CURRENT FILING DATE: 2000-10-10
      8 <150> PRIOR APPLICATION NUMBER: US 09/654,617
10 <151> PRIOR FILING DATE: 2000-09-05
12 <160> NUMBER OF SEQ ID NOS: 463173
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19 <220> FEATURE:
20 <221> NAME/KEY: unsure
21 <222> LOCATION: (1)..(854)
22 <223> OTHER INFORMATION: unsure at all n locations
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30 cacatccaag cgcaccttcg agcaggcgca gtcgctcggc atcccgcctc ccacgctcga 180
32 cgacaacccg ctcacgacc tcgccatcga cgggtccgac gagggttgac cctgacctca 240
34 accttgtaga agggcggggt ggtgctcttc ttcgtgagaa gatggttgag gcagcatcgg 300
36 acaagtttat tgttattggt gacgagacaa aactagttga tgggttagga ggtagtggc 360
38 tagccatgcc agtggaaagt gtgcagttct gctggaagta caaccttgta agattgcagg 420
40 aactgtttaa ggaggaaaga gtcgaggcaa agctaaggtt tgaaggcgac aagccctatg 480
42 ttactgacaa ctcaaaactac atcgtegatt tatacttcaa gacgccaatc aaggatgcgt 540
44 tggcagcagg acaggaaatt gcagctctgg aaggagttgt tgacctggg ttgttcttga 600
46 acatggcgag ttcaagtate attgctggaa cggacggtgt cagtgtcaaa acgaagttag 660
48 tttttgagtt gctttgttgt ttgtgttgag ttttacaatt taatgtacaa gctattggtg 720
50 taaaagcagc tgataagatg cttcaataaa ggtgttcccc caatgtgggg attgactatc 780
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59 <212> TYPE: DNA
60 <213> ORGANISM: Glycine max
62 <400> SEQUENCE: 2
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66 tatccattat taccaaaaaa aaagaaaaaa ggatatcaaa cacccttttc atcattaaaa 120
68 ctctcagttc cctctttccc tatcaaaacc ctttcccaca acactactca ctccagtaca 180
70 agaaaccctt tttcaatttg gtttcaacag cacacacaca cacacatata tatatatata 240
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78 cgcgccaccc ggtgtaccgg ggggtgagga ggaggaaactc ggataagtgg gtgtgtgagg 480
80 tgaggggagc caacaagaag accaggattt ggctggggac tttccccacg ccgagatagg 540

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82 cggctcgggc gcacgacgtg ggggcaatgg ccctgagggg cgggtatgcc tgtctaaact 600
84 ttgctgactc ggcttgccgg ttacctgttc ccgccacggc cgaggcaag gatatacaga 660
86 aggcagcagc agaagctgcc caggttttca gaccagatca aaccttaaaa aatgctaata 720
88 caaggcagga gtgtgtggag gcggtggcgg tggcgggtgg ggagacaaca acggcgacgg 780
90 cacaagggtt gttttatatg gaggaagaag agcagggtgt gatatgcct gagttgctta 840
92 ggaatatggt gctcatgtcc ccaacacatt gcttagggta tgagtatgaa gatgctgact 900
94 tggatgcccc aqatgctgaq gtgtcactat ggaatttttc aatttaataa tgtgttttgg 960
96 tttggttttt gttgttagtt ttttggagty aacagtgtct gtactggttt tttattagta 1020
98 gtacggatac tagttatagg tggaaagatt gcgagggacc aaaaggaatt ttcttttgaa 1080
100 cctttttttt tcaatgtaat caatatcacg tatatcatga agtgaatccc ttcaagttta 1140
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104 aaaaaaaaaa aaggggcgcc gc 1222

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109 <212> TYPE: DNA

110 <213> ORGANISM: Glycine max

112 <400> SEQUENCE: 3

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118 cgctgactcg acgtggcggg taccaattcc cgccactgct aacgcaagg atatacagaa 180
120 agcagcagca gaggtgccc aggttttcag accaagtcag accttagaaa atacgaatac 240
122 aaagcaagag tgtgtaaaag tggtagcagc aacaacgac acagaacaaa aacgaggaat 300
124 gttttatagc gaggaagaag agcaagtgtt agatatgcct gagttgctta ggaatatggt 360
126 gcttatgtcc ccaacacatt gcataaggta tgagtatgaa gatgctgact tggatgctca 420
128 agatgctgag gtgtccctat ggagtttctc aatttaataa cgtgcttttg gtttggtttt 480
130 ttatgttagt ttggagtggt gactgtctgt actggttttt tattagtagt acggatacta 540
132 gctataggta gcagattgaa agggaccaaa aggaatttct ttttgaacc ctttttgta 600
134 aagtaataca tcgcgtatca tcaagtgaat cccttgatca agtttatgta tgaattaaat 660
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141 <212> TYPE: DNA

142 <213> ORGANISM: Glycine max

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147 <223> OTHER INFORMATION: unsure at all n locations

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155 ttccctatc aaaacccttt ccacaaacac tactcaactc agtagtaca gcaaacctt 180
157 ctaacttttg cttcagcggc acatatatat atatatatat atagaacatg tataccttga 240
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161 gcgcggcttc cgagggtctc gcggcgctgg cattttccga cgaggaggtg cggctggcgg 360
163 tgaggcaccg gaagaagcgg gccggcgga agaagtccg ggagacgcgc caccgggtgt 420
165 tcccgggcgt gtggaggatg gtcttggttc tttgggttcc tttatttata attattgatt 480

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W--> 167 gttgattctc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540

W--> 169 nnnnnnnnnn n 551

172 <210> SEQ ID NO: 5

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183 cagaagcate ttattcgtct gaaacaagga gcacccccto agacgaagaa gtgattctag 180
185 cgtcagcgcg gccaaaagag cgagcgggaa gaagagtcct caaggagaca aggcaccccg 240
187 tctaccgagg agtgctcgc aggaacaaga acaagtgggt ctgcgagatg cgagtcceca 300
189 acaacaactc acggatttgg ctcgggacat acccaacgcc cgaatggcc gcacgtgcgc 360
191 acgacgttgc ggcgctcgc ctcaggggaa agtcgcgtg cctcaacttc gcggactcca 420
193 ggtggcggtc gacgggtccc gcgaccacca acgcgaggga gatacggcga gcggcggggg 480
195 aggtgcttga ggcatttgc gttgcagatg gggacgacgt taatattgaa caacagcaga 540
197 gtgtgatggc cagcaatgat gatgaagttc aagagcctct ccagcaggag gaggttcaa 600
199 acttgcatga ttgtctttg agtattgcga atgagccttt gatgtctct ccacctgtg 660
201 caagagatgg tagggactgg aatgacgtgg acatatttga tgatgatgaa atctcactat 720
203 ggaacttctc aatttgacgc gtacgtcatt aagagtatga ctgtatgcat gtttgatgat 780
205 aagcgaaaaa acatttttgc gtatgtgatt ttctatatat ttagggaacct gttgtgtgta 840
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209 tctatgattt gtttcgtgat taaattttaa tgacaagtac agttggcaaa aaaaaaaaaa 960
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225 caagacggtg taccctgttg acaagctcac gccgacaac cgcctctacc acaaggcctg 180
227 ctcccgctgc caacctgca agggcaccct caagctcgcc aactacaact ccttcgaggg 240
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239 gtactgcaag caccaccaca tccagctgat caaggagaag gggaacttca gccagcttga 600
241 gaatgaccac gagaagacat cacaggctgg gtcactggag gaggatgaac aagagtattg 660
243 atcactgagc acaaccacag atgaataatg aatcctcttg catttgecta gagcactatg 720
245 tatttctgtg cgttggttcg atttcagttt taccaatgga ggtcatgtgt gttcagagaa 780
247 caatgatatt gttgtcttgt atctgcatgt aaacgttgtt atctttgagt cagaaaaaaa 840
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253 <211> LENGTH: 1686
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257 <400> SEQUENCE: 7
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261 ttctttttgg ttctcttggg tctctatgtc acagtggagt tctacgtaga agcagatggt 120
263 agtgggtggg ttgtgagaac aagaggagtg cagcttatgc tgaatgggag cccctactat 180

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269 gctttcagtg atggttgata tcaaccacta caatactctc ctggatctta caattaccaa 360
271 atgtttcagg gcttgatatt cgcaatagcc gaagcaagaa aatatgggat caagatgggt 420
273 ttgagtttgg tgaataacta tgagaacatg ggtggaaaaga aacagtatgt ggaatgggca 480
275 aggagtcagg gacagtcctt aaattctgag gatgactttt ttacaaaatt cggctcagg 540
277 ggatactaca aaaaccacat caaggtctga cttacaagac gtaatagcat cactggagtt 600
279 gcttacaaag acgacccaac tataatggct tgggaactta tgaatgagat taggtgccct 660
281 tctgatcaat caggaaggac agttcaggct tggatcactg agatggcatc ttacctgaaa 720
283 tccatagatg gaaaccactt gctggaagct ggtctggagg gtttctacgg ccagtcaaa 780
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289 gaggacaaa tctcattttt aggcggttgg ctggatgagc acatccaaga tgcacagaac 960
291 acccttcaca agccactttt atttgcggag tttggtattt ccacaaagag ttatggtggc 1020
293 aactcaacac caagggatcg gttattcaac acagtatatt ctgcaatata ctcatcagc 1080
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299 gctcaagagt ctcaaaaact aaaccgaatt cgaagatgt acgccaagct tagaaaacatt 1260
301 gagaagtggc atgaagctaa gcaaattaga ggtggaaaact gaatatgata cgtcttaact 1320
303 accatgatat atatatatag agagagagag agagagtga gggagttaga aactttaatt 1380
305 gataacttat ttgcgtgttg attaatcttc agaatgaagt gtcccaataa tcttagtggc 1440
307 aagaattgoc tgttatcttc gtcaaatgat tccaaagtga gtyttctaca aatgcatag 1500
309 acataactat ttattattga gatatttoga gaaaaacttt gtaatgcacg aactagcatt 1560
311 tcatctacac tattatgtcg gcaagtgaat gtactttgtc taaactgttt ataaaatgga 1620
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329 caacacggta tattcagcaa tatactcacc agcaagcagt ggcggggctg ctgttgggtg 180
331 cctgttttgg caacttatgg ctcaaggaaat ggattcttat cgagacgggt acgaggtgg 240
333 cttagatgag agcccttcaa cggctaattt gattgctcaa ggtctcaaa aactaaaccg 300
335 aattcgcaag atgtacgcca gactcagaaa cattgagaaa tggaaatgaag ctaagcaaat 360
337 tagaggtatg aactgaatat atatatatat atatagagag agagagagag agagaagggt 420
339 gagttagaaa ctttaattta taacthaatc gtatgggcaa gaattgctg ttattacaag 480
341 tgaagtgtcc tacaatatga ataaacataa ctattataga gatataatga gagaaacttt 540
343 gtaattgacg agctagcatt tcatctacta ttatgtcgga agtgaatgta cttatgtcaa 600
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347 gattgttgca ttttttaatt taactgtgat gcccgacctc atgtagaatc cttcctttgc 720
349 cctgtcagct tcttgaacac catcggtgtt tgcctatgat acatttcttc ctatcttggc 780
351 attcttgcg attatgcaat tccgtatttt agtatttgc ccgacacca ttggaacctt 840
353 ccttctgccc accagagatg caatttcata ctcaagttga taatagtcag caccatcat 900
355 catcgatatc tgaagctcca caccagactc caaacgtgag cgtactccaa caatagaatg 960
357 ttgaacgctg cactcctca agaagcaacc atgagatata attgcatcca caatcttgcg 1020
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365 cacagcagat gggataaatt cagatccaaa gtcattgcat gaagaacatt tccatcttaa 1260
367 tagttgcagc aaggtttcag ttctaaacac gtagacaccc atggatgcaa tataaggatg 1320
369 tttttctgct tcttgtggca ataacctaa aagagtgtgt tcaacacgca ttgcttttag 1380
371 atctgatecc ttagggtttt ctgcaactg tataatecgt cctgtcttat caattttcat 1440
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375 atttgtgtca acatgtctct gtacaaagtt catgtagtcc attcggtaaa gatgatcacc 1560
377 agaaagtatc aatatatgct caacattctt gttcttggca tcccaaaaaa cccatataaa 1620
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393 cgtaaccgtc tcgataagat gtaagccaga cttagaaaca ttgagaagtg gaatgaagct 180
395 aagcaaatga gaggtggaaa ctgaatatga taactcttaa ctaccatgat atatatatat 240
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415 ttacctaca atcaaggaca gaatctatgc aattttaaag ccaacaactg tgagagaagc 180
417 caagtgtgaa gacagacagt gagaatgat gatgaagcgt cgggttcttt tggttctctt 240
419 ggttctctat gtcacagtgg agcagagtaa gctactccac cagtagaag ccgatgggtg 300
421 gtttgaataa acaagaggag tgcagcttat gctgaatggg agtccctact atgctaattg 360
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425 atcgttatct caacaggctt caaatcatgg actcaacatt gccagaactt gggccttcag 480
427 tgatggtgga tatcaacccc tacaatactc tcctggatcc tacaatgacc aaatgtttca 540
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437 <213> ORGANISM: Glycine max
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445 ctttattcga agttctgatg gctgtgcgat cattctctta cgaatgttcc ctcagcttcc 180
447 gaggggaaga tactcgttat ggtttcactg gctatctcta caatgtcctt cgggnaagg 240
449 gaattcacac cttcattgat gacgacgagc cccaggaagg ggacgaaac acgacagcac 300
451 ttgaggaggc tattgayaag tccaagattt tcatcatcgt gctctctgaa aactacgc 360

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FJI

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 03/06/2001

PATENT APPLICATION: US/09/684,016

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Input Set : D:\Unigene20000612.txt

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L:8 M:270 C: Current Application Number differs, Replaced Current Application No
L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:1266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:1780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:1782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:1873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:1928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:2947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:2949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:3286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78
L:3329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:3331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:4094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:4151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96
L:4994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112
L:4996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112
L:5459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123
L:5461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123
L:5654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127
L:5755 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130
L:5757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130
L:6154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139
L:6397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144
L:6403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144
L:7218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162
L:7361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:165
L:7776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173
L:7877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175
L:7879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175
L:7881 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175
L:7928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176
L:7930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176
L:7932 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176
L:7977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177
L:8508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/684,016

DATE: 03/06/2001
TIME: 13:03:00

Input Set : D:\Unigene20000612.txt
Output Set: N:\CRF3\03062001\I684016.raw

L:8510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185
L:8603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:187
L:8605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:187
L:8768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:192